



## Material - BS 318 S 13

### Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS 318 S 13 Seamless Steel Tubes for Pressure Purposes

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Steel and Plates

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	21.000 - 23.000		
Molybdenum	Mo %	2.500 - 3.500		
Nickel	Ni %	4.500 - 6.500		
Nitrogen	N %	0.080 - 0.200		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      640 - 880 Yield Strength in Mpa      450 min. Elongation in %      25 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      55 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4462	BS	British	Tube
1.4462	DIN	Germany	Steel, Bar and Rod
1.4462	EN	European Union	Steel, Bar and Rod
X2CrNiMoN22-5-3	AFNOR NF	France	Steel
X2CrNiMoN22-5-3	DIN	Germany	Steel, Bar and Rod
SUS 329J 3L	JIS	Japan	Steel, Sheet, Plate and Strip
X2CrNiMoN22-5-3	UNI	Italy	Steel, Sheet, Plate and Strip

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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